



R

04/577805

e of c / \$

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Thomas T. Hansen et al.

Examiner: Jones, Judson

Patent No.: 6,624,539

Group Art Unit: 2834

Issue Date: September 23, 2003

Docket No: 1063.004US1

Title: HIGH POWER ULTRASONIC TRANSDUCERS

Certificate

JAN 09 2004

of Correction

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

We are transmitting herewith the attached:

- ☒ A check in the amount of \$100.00 to cover the Certificate of Correction fee.
- ☒ Request for Certificate of Correction.
- ☒ Certificate of Correction Form - PTO-1050 (in duplicate)
- ☒ A return postcard.

Please charge any additional fees or credit overpayment to Deposit Account No. 19-0743

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
Customer No: 21186

By: Barbara J. Clark
Name: Barbara J. Clark
Reg. No. 38,107
BJC:CMG:mjg

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner of Patents and Trademarks, P.O. Box 1450, Alexandria VA 22313-1450, on this 31st day of December 2003.

Mark J. Gambetta
Name

Mark J. Gambetta
Signature

JAN 12 2004



Patent 6,624,539

PATENT

IN UNITED STATES PATENT AND TRADEMARK OFFICE

Patent No.: 6,624,539

Docket No.: 1063.004US1

Issue Date: September 23, 2003

Patentee: Thomas T. Hansen et al.

Customer No.: 21186

Confirmation No.: 4540

Title: HIGH POWER ULTRASONIC TRANSDUCERS

REQUEST FOR CERTIFICATION OF CORRECTION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

It is requested that a Certificate of Correction be issued correcting printing errors appearing in the above-identified United States patent. Two copies of the text of the Certificate in the suggested form are enclosed.

Pursuant to 1.20(a), enclosed please find a check in the amount of \$100.00.

Issuance of the Certificate of Correction would neither expand nor contract the scope of the claims as properly allowed, and re-examination is not required.

The Examiner is authorized to charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

Respectfully Submitted

THOMAS T. HANSEN ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
P.O. Box 2938
Minneapolis, MN 55402
(612) 373-6900

Date: DECEMBER 22, 2003

By:

Barbara J. Clark

Reg. No: 38,107

BJC:mjg

CERTIFICATE UNDER 37 CFR § 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450, on this 31st day of December 2003.

Signature

01/06/2004 EAREGAY2 00000215 6624539

01 FC:1811

100.00 0P

01/06/2004 EAREGAY2 00000215 6624539

01 FC:1811

100.00 0P

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 3

PATENT NO. : 6,624,539

DATED : September 23, 2003

INVENTORS : Thomas T. Hansen, Todd A. Reinders

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the face page, in field (56), under "OTHER PUBLICATIONS", column 1, line 2, delete "(date unknown)" and insert --(1992 estimated)-- therefor.

In column 4, line 10, delete "visa" and insert --vice-- therefor.

In column 4, line 25, delete "." after "acoustic".

In column 4, line 30, delete "ultrasonci" and insert --ultrasonic-- therefor.

In column 7, line 9, delete Dy_{-x1} and insert -- Dy_{1-x1} -- therefor.

In column 10, line 64, delete "butting" and insert --abutting-- therefor.

In column 13, line 11, delete " lb_f " and insert -- lb_f -- therefor.

In column 20, line 63, insert --rod-- after "drive".

In column 20, line 65, delete "metal" and insert --material-- therefor.

In column 22, line 9, delete "e" after "drive".

In column 22, line 50, insert -- - -- between "13" and "15".

In column 27, line 5, delete "(1)" and insert --(10)-- therefor.

MAILING ADDRESS OF SENDER:

SCHWEGMAN, LUNDBERG, WOESSNER, & KLUTH, P.A.
P.O. BOX 2938
Minneapolis, MN 55402

Atty Docket No: 1063.004US1

PATENT NO. 6624539

No. of additional copies

 _____

JAN 12 2004

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 2 of 3

PATENT NO. : 6,624,539

DATED : September 23, 2003

INVENTORS : Thomas T. Hansen, Todd A. Reinders

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 27, line 21, delete "5° C" and insert --50° C-- therefor.

In column 27, line 23, delete "5° C" and insert --50° C-- therefor.

In column 27, line 43, delete "0° C" and insert --120° C-- therefor.

In column 27, line 44, delete "20 C" and insert --20° C-- therefor.

In column 28, line 41, delete "4° C" and insert --40° C-- therefor.

In column 28, line 63, delete "RE170" and insert --R-E170-- therefor.

In column 33, line 2, insert --through each-- after "extends".

In column 33, line 2, insert --the input-- after "Specifically,".

In column 33, line 3, delete "ad" and insert --and-- therefor.

In column 33, line 3, delete "a" and insert --alternating-- therefor.

In column 37, line 50, in claim 27, delete "traducer" and insert --transducer-- therefor.

MAILING ADDRESS OF SENDER:

SCHWEGMAN, LUNDBERG, WOESSNER, & KLUTH, P.A.
P.O. BOX 2938
Minneapolis, MN 55402

Atty Docket No: 1063.004US1

PATENT NO. 6624539

No. of additional copies



JAN 12 2004

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 3 of 3

PATENT NO. : 6,624,539

DATED : September 23, 2003

INVENTORS : Thomas T. Hansen, Todd A. Reinders

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 38, line 4, in claim 30, delete "one-fill" and insert --one-full-- therefor.

In column 39, line 1, in claim 45, delete "claim 1" and insert --claim 34-- therefor.

In column 39, line 20, in claim 47, delete "sonochemical" and insert --sonochemical-- therefor.

In column 39, line 36, in claim 53, delete "RC-601a" and insert --HC-601a-- therefor.

MAILING ADDRESS OF SENDER:

SCHWEGMAN, LUNDBERG, WOESSNER, & KLUTH, P.A.
P.O. BOX 2938
Minneapolis, MN 55402

Atty Docket No: 1063.004US1

PATENT NO. 6624539

No. of additional copies

 _____

JAN 12 2004

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 3

PATENT NO. : 6,624,539

DATED : September 23, 2003

INVENTORS : Thomas T. Hansen, Todd A. Reinders

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the face page, in field (56), under "OTHER PUBLICATIONS", column 1, line 2, delete "(date unknown)" and insert --(1992 estimated)-- therefor.

In column 4, line 10, delete "visa" and insert --vice-- therefor.

In column 4, line 25, delete "." after "acoustic".

In column 4, line 30, delete "ultrasonci" and insert --ultrasonic-- therefor.

In column 7, line 9, delete Dy_{-x1} and insert -- Dy_{1-x1} -- therefor.

In column 10, line 64, delete "butting" and insert --abutting-- therefor.

In column 13, line 11, delete " lb_f " and insert -- lb_f -- therefor.

In column 20, line 63, insert --rod-- after "drive".

In column 20, line 65, delete "metal" and insert --material-- therefor.

In column 22, line 9, delete "e" after "drive".

In column 22, line 50, insert -- - -- between "13" and "15".

In column 27, line 5, delete "(1)" and insert --(10)-- therefor.

MAILING ADDRESS OF SENDER:

SCHWEGMAN, LUNDBERG, WOESSNER, & KLUTH, P.A.
P.O. BOX 2938
Minneapolis, MN 55402

Atty Docket No: 1063.004US1

PATENT NO.: 6624539

No. of additional copies



JAN 12 2004

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 2 of 3

PATENT NO. : 6,624,539

DATED : September 23, 2003

INVENTORS : Thomas T. Hansen, Todd A. Reinders

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 27, line 21, delete "5° C" and insert --50° C-- therefor.

In column 27, line 23, delete "5° C" and insert --50° C-- therefor.

In column 27, line 43, delete "0° C" and insert --120° C-- therefor.

In column 27, line 44, delete "20 C" and insert --20° C-- therefor.

In column 28, line 41, delete "4° C" and insert --40° C-- therefor.

In column 28, line 63, delete "RE170" and insert --R-E170-- therefor.

In column 33, line 2, insert --through each-- after "extends".

In column 33, line 2, insert --the input-- after "Specifically,".

In column 33, line 3, delete "ad" and insert --and-- therefor.

In column 33, line 3, delete "a" and insert --alternating-- therefor.

In column 37, line 50, in claim 27, delete "traducer" and insert --transducer-- therefor.

MAILING ADDRESS OF SENDER:

SCHWEGMAN, LUNDBERG, WOESSNER, & KLUTH, P.A.
P.O. BOX 2938
Minneapolis, MN 55402

Atty Docket No: 1063.004US1

PATENT NO. 6624539

No. of additional copies



JAN 12 2004

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 3 of 3

PATENT NO. : 6,624,539

DATED : September 23, 2003

INVENTORS : Thomas T. Hansen, Todd A. Reinders

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 38, line 4, in claim 30, delete "one-fill" and insert --one-full-- therefor.

In column 39, line 1, in claim 45, delete "claim 1" and insert --claim 34-- therefor.

In column 39, line 20, in claim 47, delete "sonochemical" and insert --sonochemical-- therefor.

In column 39, line 36, in claim 53, delete "RC-601a" and insert --HC-601a-- therefor.

MAILING ADDRESS OF SENDER:

SCHWEGMAN, LUNDBERG, WOESSNER, & KLUTH, P.A.
P.O. BOX 2938
Minneapolis, MN 55402

Atty Docket No: 1063.004US1

PATENT NO. 6624539

No. of additional copies



JAN 12 2004